

Tuesday, July 20, 2021

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd **P.O. Box 3** Colrain, MA 01340

Project ID: NPDES JULY 2021

SDG ID: GCI68915 Sample ID#s: CI68915

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Laboratory Director

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

July 20, 2021

SDG I.D.: GCI68915

Project ID: NPDES JULY 2021

Client Id	Lab Id	Matrix
EFFLUENT	CI68915	WASTE WATER



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 20, 2021

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

Sample Information Custody Information Date WASTE WATER Matrix:

Collected by: Received by:

KG

07/07/21

<u>Time</u> 7:00

BARNHARD Location Code:

Standard

G12043

В

07/07/21

15:27

Rush Request: P.O.#:

Analyzed by:

_aboratory Data

see "By" below

SDG ID: GCI68915

Phoenix ID: CI68915

NPDES JULY 2021 Project ID:

Client ID: **EFFLUENT**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Copper	0.027	0.003	mg/L	1	07/09/21	TH	E200.7
B.O.D./5 day	< 4.0	4.0	mg/L	2	07/07/21 17:34	RVM/LJ	SM 5210B-11
B.O.D./5 day End Incubation					07/12/21 18:18	RVM/LJ	SM 5210B-11
C.O.D.	168	10	mg/L	1	07/08/21	QH	SM 5220D-11
Ammonia as Nitrogen	0.26	0.10	mg/L	2	07/16/21	KDB	E350.1
Nitrite-N	0.045	0.010	mg/L	1	07/07/21 20:46	AP	E353.2
Nitrate-N	9.79	0.40	mg/L	20	07/07/21 20:17	AP	E353.2
Nitrogen Tot Kjeldahl	6.80	0.20	mg/L	2	07/16/21	KDB	E351.1
Total Nitrogen	16.6	0.10	mg/L	1	07/16/21	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	2.42	0.050	mg/L	5	07/08/21	MI	SM4500PE-11
Total Suspended Solids	8.7	3.3	mg/L	0.7	07/08/21	MCH/QF	SM 2540D-11
Total Metals Digestion	Completed				07/07/21	AG/BF	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

Reviewed and Released by: Rashmi Makol, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 20, 2021

QA/QC Data

SDG I.D.: GCI68915

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 582608 (mg/L)	, QC Sam	ple No: (CI69041	(CI68915	5)								
ICP Metals - Aqueous													
Copper	BRL	0.0025	0.0054	0.0062	NC	93.2	95.0	1.9	95.6	98.3	2.8	80 - 120	20
Comment:													
Additional: LCS acceptance rar	nge is 80-12	20% MS a	acceptance	e range 7	5-125%								



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 20, 2021

QA/QC Data

SDG I.D.: GCI68915

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 582745 (mg/L),	QC Sam	ole No:	CI68902	(CI6891	5)								
Phosphorus, as P Comment:	BRL	0.01	1.30	1.30	0	100			101			85 - 115	20
Additional: LCS acceptance range	ge is 85-11	5% MS	acceptance	e range	75-125%								
QA/QC Batch 582606 (mg/L),	QC Sam	ole No:	CI68976	(CI6891	5)								
B.O.D./5 day	BRL	2.0	20	19	5.10	105			98.0			70 - 130	20
B.O.D./5 day GGA BOD						101						84 - 115	20
QA/QC Batch 582734 (mg/L),	QC Sam	ole No:	CI69041	(CI6891	5)								
C.O.D. Comment:	BRL	10	21	21	NC	104			106			85 - 115	20
Additional: LCS acceptance range	ge is 85-11	5% MS	acceptance	e range	75-125%								
QA/QC Batch 582676 (mg/L),	QC Sam	ole No:	CI69379	(CI6891	5)								
Total Suspended Solids	BRL	2.5	<2.0	<3.3	NC	99.0						85 - 115	
QA/QC Batch 582630 (mg/L),	QC Sam	ole No:	CI68879	(CI6891	5)								
Nitrate-N	BRL	0.02	< 0.02	< 0.02	NC	107			109			90 - 110	20
Nitrite-N	BRL	0.01	0.045	0.06	NC	92.8			100			90 - 110	20
QA/QC Batch 583647 (mg/L),	QC Sam	ole No:	CI68902	(CI6891	5)								
Ammonia as Nitrogen	BRL	0.05	0.14	0.16	NC	91.9			102			90 - 110	20
Nitrogen Tot Kjeldahl Comment:	BRL	0.10	1.49	1.4	6.20	98.3			104			85 - 115	20
TKN is reported as Organic Nitro	ogen in the	Blank,	LCS, DUP	and MS.									

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

July 26, 2021

Tuesday, July 20, 2021

Sample Criteria Exceedances Report GCI68915 - BARNHARD

Criteria: None State: MA

State: MA

RL Analysis
SampNo Acode Phoenix Analyte Criteria Units
Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

July 20, 2021 SDG I.D.: GCl68915

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

				급	AIN OF	CHAIN OF CUSTODY RECORD	RECORD			Ŭ Temp	Cooler:	er Yes No Of Of Of	
DHIC	OE/NIX		S	587 East Mid	ldle Tumpike	Middle Turnpike, P.O. Box 370, Manchester, CT 06040	Manchester, C	T 06040		Data Data	Delivery/Co	jons:	
Environme	Environmental Laboratories, Inc	Inc.		Email: i	Email: info@phoenixlabs.com Client Services (8	9	Fax (860) 645-0823 645-8726	323	7 >	Phone: 4	413-624-	9.73471 x 373-2	Hard F.
	Mhardy				Project:	E NPDES	ن ج	ع کی	2021	Proje	Project P.O.	(J-12043	ž
Address:	247 MAN 6	50	,		Repor	뇌	1. A. A.				This s	This section MUST be	
	Colvara M.	75&W	934	2	Invoice to:	7	SAMMACAY				S Z	completed with	
						#					→	+ + + + +	
	Client Sample - Information - Identification	- Identificatio		- u	-	Ye	(S)	× /					
Signature			Date: 7	12-2-2	Analysis Request	Sec.	K	` `		CE)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10001	
Matrix Code: DW=Drinking Water RW=Raw Water SE: B=Bulk L=Liquid X =	Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil B=Bulk L=Liquid X =(Other)	rface Water W oil SD =Solid	/W=Waste \ W=Wipe C	∨ater)IL =Oil	, A	100	183	37.10	TO TO THE STATE OF THE PARTY OF	Tough tou		toos luos luos luos luos luos luos luos l	
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample	Date	Time	S S S S S S S S S S S S S S S S S S S		1 00%	CEACH	S los S los	OT ILLOS	CCT LO	THOR SURGER SONIA	
51689	E(Flvan +	, L	1-7-7	747							7		T
	EFFIRENT	1		701							У		
	日ですします	3	1.7.7	7.42	_						34		
	1~m(ナシヨ	7	12-1-6	7.sm						<i>-</i>	y		
	EFFINENT	7 WW	1-1-0	7Am		1					۴		
	Efflurt	3	2-1-2	101							×		
													T
Relinguished by:	Accepted by			Date:	Time:	ă Į	티	-	MA		-	Data Format	
7		1		1514	12/8	(Residential)	RCP Cert	Sert	MCP Certification	ication		Excel	
	1			10.0%	507	Orrect Exposure (Comm/Industrial)		GW Protection	□ GW-1	☐ MWRA eSMART —	eSMART	T PDF	
)						Direct Exposure		SW Protection	_ GW-2	S-1 10	S-1 10% CALC	EQuIS	
Comments, Special	Comments, Special Requirements or Regulations:	is		Times Times	Limo	GA Leachability		GA Mobility	S-1 GW-1	S-1 GW-1 S-1 GW-2 S-1 GW-3	S-1 GW-3	Other	
				1 Day*	i	GB Leachability		GB Mobility	s-2 Gw-1 [_] s-2 Gw-2 [S-2 GW-3	Tier II Checklist	
			<u> </u>	2 Days*	-	GA-GW Objectives		I/C DEC	S-3 GW-1 [] SW Protection	☐ S-3 GW-2 ☐ S-3 GW-3 lon	s-3 Gw-3	rull Data Package Phoenix Std Report	
*MS/MSD are considere	"MS/MSD are considered sie samples and will be billed as such in accordance	as such in acco		Standard Other		GB-GW	State w	here samp	State where samples were collected:	'	MR	* SURCHARGE APPLIES	
with the prices quoted.				SURCHAR	* SURCHARGE APPLIES	composition .						PEI -126 BEV 06/20	06/